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ORD-691-81

2 JUN 1981

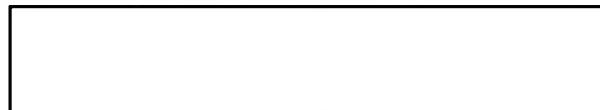
MEMORANDUM FOR: Director of Data Processing

FROM: Philip K. Eckman
Director of Research and Development

SUBJECT: Research Program for Fiscal Year 1982

1. I plan to continue my policy of discussing our research program for the next operating year (FY-82) with each Office Director. I would like to schedule my meeting with you and appropriate members of your staff for 30 June at 2 p.m. in your office. Let me know if this is a convenient time for you.

2. As a point of reference, I am attaching a current status report of our FY-81 program for your Office and for DDA. This may aid you in developing any last minute guidance for the FY-82 program.



Philip K. Eckman

Attachment:
As stated

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STATUS REPORT

PROJECT: Advanced Text Search and Retrieval

OBJECTIVE: Originally, to apply HSTS Techniques
directly to computer systems; modified to develop
a HSTS testbed for application evaluation.

INITIATION DATE: Deferred at the request of the
DDS&T until the Agency's request for supplemental
funds is acted upon. Refer to memoranda
ORD-1514-80 (NFAC) and ORD-1515-80 (DDA).

STATUS:

CUSTOMER CONTACT: ODP, NFAC, OSO, OS, OC

COST:

81

Planned:

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Actual:

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SCHEDULE:

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STATUS REPORT

PROJECT: Computer Security - Audit Trail Analysis

OBJECTIVE: To provide a capability for information system security officers to detect improper use of a computer system, of security relevance, by examination of audit trail data.

INITIATION DATE: Fourth Quarter FY-80

STATUS: In order to confirm the hypothesis established by (see Background), we are preparing an RFP to have algorithms developed which characterize users behavior of security interest in those IBM systems that maintain SMF (audit trail data) or the equivalent. The RFP will be ready by the end of May.

CUSTOMER CONTACT: OS/ISSG

COST:

81

Planned:

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Actual:

SCHEDULE:

BACKGROUND: FY-80 study with concluded that simple statistical techniques could be used to detect "abnormal" user behavior patterns in both batch and interactive computer environments. OS/ISSG requested continued support by ORD to this problem.

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STATUS REPORT

PROJECT: Computer Security-RECON

OBJECTIVE: Explore methodology to provide a provably secure mechanism to allow access to Agency systems by other intelligence community members that observes compartmentation requirements.

INITIATION DATE: Second quarter FY-81 - analysis;
Fourth quarter FY-81 - development.

STATUS: This project was initiated in FY-81. This year's goals are to produce a feasibility study and the selection of a design approach. The analysis performed to date has concluded that a cryptographic/communication coding theory approach appears feasible and has an acceptable degree of security risk. The remaining FY-81 task is a system requirements/specification activity with prototype development planned for FY-82.

The report of the preliminary analysis was provided in April 1981. The RFP is in preparation. The cost to date for the analysis is 20K. The proposals are expected to be costed around

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CUSTOMER CONTACT: ODP, IRO, OCR

COST:

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Planned:

Actual:

SCHEDULE:

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STATUS REPORT

PROJECT: Information Processing for Analysts

OBJECTIVE: Continue the exploration of computer systems architectures which will provide an information processing environment directed towards the manipulation of analysts's cognitive models rather than the manipulation of analysts' data.

INITIATION DATE: FY-80; OGSR application initiated first quarter FY-81.

STATUS: The FY-80 effort resulted in the specification of system architecture features important for an intelligence analysis/modeling-based computer system. The most significant aspect of this architecture is support to knowledge-based (artificial intelligence) models. Limited funding precluded a major development in FY-81. Therefore, the FY-81 effort is directed at testing aspects of these architecture features in support of AMRD's rice yield model development for OGSR. FY-82 activities will be adjusted upon evaluation of this experiment's results.

CUSTOMER CONTACT: NFAC, ODP

COST:

Planned:

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Actual:

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SCHEDULE: Contract completion by close FY-81.

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STATUS REPORT

PROJECT: Data Protection Techniques for Data Stored on Magnetic Media

OBJECTIVE: Explore technical means for the protection of computer data stored on magnetic media used in field application. The objective is to avoid the compromise of data without the need to destroy disks and tapes. The study will result in the development of algorithms for storing and retrieving data in protection form. The analysis will address implementing cost, and operational considerations.

INITIATION DATE: Deferred due to uncertainty of the direction of the CRAFT program.

STATUS:

CUSTOMER CONTACT: ODP, OS/ISSG, DO, OC, OSO

COST:

Planned:

81

Actual:

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SCHEDULE:

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STATUS REPORT

PROJECT: Tape Data Security

OBJECTIVE: (S) Determine if data can be recovered from magnetic computer tape which has been degaussed to NSA's approved level.

INITIATION DATE: FY80

STATUS: Project has recently been completed and no significant information was detected to be remaining on the degaussed tapes. The contractor still believes with additional research-information can be retrieved.

CUSTOMER CONTACT: [REDACTED] OS/TSD

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COST:

81

PLANNED:

[REDACTED]

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ACTUAL:

SCHEDULE:

Project may be reactivated in FY82 for [REDACTED] based on the relative priority of this project in the Physical Security and C/M program.

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